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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Christian Kropf et al.

Serial No.: 09/936,747 Group Art Unit: 1616

Filed: September 12, 2001 Examiner: S. Dodson

For: Use of Nanoscalar Water-Soluble B-(1,3) Glucans

THE ASSISTANT COMMISSIONER FOR PATENTS Washington, D.C. 20231

CLEAN VERSION OF AMENDED CLAIMS

- 1. A method of producing cosmetic preparations comprising nanoscalar water soluble ß-(1,3) glucans, which are substantially free from ß-(1,6) linkages and have particle diameters in the area of 10 to 300 nm, for producing cosmetic and/or pharmaceutical preparations.
 - 2. The method according to claim 1, wherein glucans based on yeasts of the family *Saccharomyces* are used.
 - 3. The method according to claim 1, wherein glucans are used which have been obtained by contacting glucans with ß-(1,3) and ß-(1,6) linkages in such a way with ß-(1,6) glucanases that practically all ß-(1,6) linkages are loosened, whereafter the lysis products are brought into a nanoscalar form.
 - 4. The method according to claim 3 wherein glucans are used which have been treated with glucanases based on *Trichodermia harzianum*.

5. The method according to claim 1, wherein nano particles which are embedded in a protecting colloid are used.

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- 6. The method according to claim 5, wherein polyvinyl alcohol or polyethylene glycol are used as a protecting colloid.
- 7. The method according to claim 1, wherein the glucans are used in amounts of 0.1 to 5 % by weight, based on the preparations.
- 8. The method according to claim 1, wherein the glucans are used for manufacture of hair care agents.
- 9. The method according to claim 1, wherein the glucans are used for manufacture of skin care and sun protecting agents.

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cosmetic and/or pharmaceutical preparations.

NEW CLAIMS 10-17

- 10. A method of producing pharmaceutical preparations comprising nanoscalar water soluble ß-(1,3) glucans, which are substantially free from ß-(1,6) linkages and have particle diameters in the area of 10 to 300 nm, for producing
 - 11. The method according to claim 1, wherein glucans based on yeasts of the family Saccharomyces are used
 - 12. The method according to claim 1, wherein glucans are used which have been obtained by contacting glucans with ß-(1,3) and ß-(1,6) linkages in such a way with ß-(1,6) glucanases that practically all ß-(1,6) linkages are loosened, whereafter the lysis products are brought into a nanoscalar form.
 - 13. The method according to claim 3, wherein glucans are used which have been treated with glucanases based on *Trichodermia harzianum*.

- 14. The method according to claim 1, wherein nano particles which are embedded in a protecting colloid are used.
- 15. The method according to claim 5, wherein polyvinyl alcohol or polyethylene glycol are used as protecting colloid.
 - 16. The method according to claim 1, wherein the glucans are used in amounts of 0.1 to 5 % by weight, based on the preparations.